

In the claims:

1. (Original) A method for loading a medical device with a beneficial agent, the method comprising:
 - providing a medical device with a plurality of holes;
 - dispensing a beneficial agent through a dispenser into the plurality of holes by vibration of a portion of the dispenser to form a plurality of droplets; and
 - controlling a size of the droplets by controlling parameters of the vibration.
2. (Original) The method of Claim 1, further comprising controlling a number and location of the droplets with a central processing unit.
3. (Original) The method of Claim 2, further comprising observing the dispensing of the beneficial agent and returning observed data to the central processing unit for use in controlling the location of the droplets.
4. (Original) The method of Claim 1, wherein the dispenser uses vibration of a piezoelectric material.
5. (Original) The method of Claim 1, wherein the dispenser uses vibration of an acoustic transducer.
6. (Original) A method for loading a medical device with a beneficial agent, the method comprising:
 - providing a medical device to be provided with a therapeutic agent;
 - providing a dispenser containing a beneficial agent including a therapeutic agent and a volatile solvent;
 - delivering droplets of the beneficial agent to the medical device with the dispenser; and
 - inhibiting evaporation of the volatile solvent during delivery of the droplets by creating a cloud of vaporized solvent around an exit orifice of the dispenser.

7. (Original) The method of Claim 6, wherein the cloud is created by containment of the volatile solvent evaporating from the beneficial agent.

8. (Original) The method of Claim 6, wherein the cloud is created by delivery of the volatile solvent around the exit orifice from an auxiliary solvent source.

9. (Original) A system for loading a medical device with a beneficial agent, the system comprising:

a mandrel for supporting a medical device;
a dispenser for dispensing a beneficial agent into a plurality of holes in the medical device by vibration of a portion of the dispenser; and
a central processing unit for controlling a size of droplets of beneficial agent from the dispenser by controlling parameters of the vibration.

10. (Original) The system of Claim 9, wherein the central processing unit controls a number and location of the droplets.

11. (Original) The system of Claim 9, wherein the dispenser uses vibration of a piezoelectric material.

12. (Original) The system of Claim 9, wherein the dispenser uses vibration of an acoustic transducer.

13. (New) A method for loading a medical device with a beneficial agent, the method comprising:

providing a medical device having openings to be provided with a therapeutic agent;
providing a dispenser containing a beneficial agent, the beneficial agent containing a solvent;
delivering droplets of the beneficial agent to the medical device openings through a dispensing tip of the dispenser; and

forming a cloud of gas adjacent to the dispensing tip of the dispenser to prevent fowling of the dispensing tip.

14. (New) The method of Claim 13, wherein the cloud is formed by evaporation of a liquid.

15. (New) The method of Claim 13, wherein the cloud comprises evaporated solvent.

16. (New) The method of Claim 13, wherein the medical device is a stent.

17. (New) A system for loading a medical device with a beneficial agent, the system comprising:

- a medical device having openings;
- a dispenser including a dispensing tip configured to deliver droplets of a beneficial agent into the openings of the medical device;
- a beneficial agent solution supply connected to the dispenser, the beneficial agent containing a solvent; and
- a cloud formation system configured to form a cloud of gas adjacent to the dispensing tip of the dispenser, the gas selected to prevent fowling of the dispensing tip.

18. (New) The system of Claim 17, wherein the cloud formation system includes a supply of a liquid and means for evaporating the liquid.

19. (New) The system of Claim 17, wherein the cloud formation system includes a supply of liquid solvent and means for evaporating the liquid solvent.

20. (New) The system of Claim 17, wherein the medical device is a stent.